Title (en)

Audio encoder, audio decoder, methods and computer program using jointly encoded residual signals

Title (de)

Audiocodierer, Audiodecodierer, Verfahren und Computerprogramm mit gemeinsamen codierten Restsignalen

Title (fr)

Encodeur audio, décodeur audio, procédés et programme informatique utilisant des signaux résiduels codés conjointement

Publication

EP 2830051 A3 20150304 (EN)

Application

EP 13189305 A 20131018

Priority

• EP 13177376 A 20130722
• EP 13189305 A 20131018

Abstract (en)

[origin: EP2830052A1] An audio decoder for providing at least four bandwidth-extended channel signals on the basis of an encoded representation is configured to provide a first downmix signal and a second downmix signal on the basis of a jointly encoded representation of the first downmix signal and the second downmix signal using a multi-channel decoding. The audio decoder is configured to provide at least a first audio channel signal and a second audio channel signal on the basis of the first downmix signal using a multi-channel decoding. The audio decoder is configured to provide at least a third audio channel signal and a fourth audio channel signal on the basis of the second downmix signal using a multi-channel decoding. The audio decoder is configured to perform a multi-channel bandwidth extension on the basis of the first audio channel signal and the third audio channel signal, to obtain a first bandwidth-extended channel signal and a third bandwidth-extended channel signal. The audio decoder is configured to perform a multi-channel bandwidth extension on the basis of the second audio channel signal and the fourth audio channel signal, to obtain a second bandwidth extended channel signal and a fourth bandwidth extended channel signal. An audio encoder uses a related concept.

IPC 8 full level

G10L 19/008 (2013.01); G10L 21/038 (2013.01)

CPC (source: EP RU US)

G10L 19/0017 (2013.01 - EP RU US); **G10L 19/008** (2013.01 - EP RU US); **G10L 21/038** (2013.01 - EP RU US); **H04S 3/008** (2013.01 - RU US); **H04S 7/30** (2013.01 - RU US); H04S 2400/01 (2013.01 - US); H04S 2400/03 (2013.01 - US); H04S 2420/03 (2013.01 - US)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2830052 A1 20150128; AR 097011 A1 20160210; AR 097012 A1 20160210; AU 2014295282 A1 20160310; AU 2014295282 B2 20170727; AU 2014295360 A1 20160310; AU 2014295360 B2 20171026; BR 112016001137 A2 20170725; BR 112016001137 B1 20221129; BR 112016001141 A2 20170725; BR 112016001141 B1 20211214; CA 2917770 A1 20150129; CA 2917770 C 20210105; CA 2918237 A1 20150129; CA 2918237 C 20210921; CN 105580073 A 20160511; CN 105580073 B 20191213; CN 105593931 A 20160518; CN 105593931 B 20191227; CN 111105805 A 20200505; CN 111128205 A 20200508; CN 111128206 A 20200508; EP 2830051 A2 20150128; EP 2830051 A3 20150304; EP 3022734 A1 20160525; EP 3022734 B1 20170823; EP 3022735 A1 20160525; EP 3022735 B1 20170906; ES 2649194 T3 20180110; ES 2650544 T3 20180119; JP 2016529544 A 20160923; JP 2016530788 A 20160929; JP 6117997 B2 20170419; JP 6346278 B2 20180620; KR 101823278 B1 20180129; KR 101823279 B1 20180308; KR 20160033777 A 20160328; KR 20160033778 A 20160328; MX 2016000858 A 20160505; MX 2016000939 A 20160425; MX 357667 B 20180718; MX 357826 B 20180725; MY 181944 A 20210114; PL 3022734 T3 20180131; PL 3022735 T3 20180228; PT 3022734 T 20171129; PT 3022735 T 20171207; RU 2016105702 A 20170825; RU 2016105703 A 20170825; RU 2666230 C2 20180906; RU 2677580 C2 20190117; SG 11201600468S A 20160226; TW 201514972 A 20150416; TW 201514973 A 20150416; TW I544479 B 20160801; TW I550598 B 20160921; US 10147431 B2 20181204; US 10741188 B2 20200811; US 10770080 B2 20200908; US 11488610 B2 20221101; US 11657826 B2 20230523; US 2016247508 A1 20160825; US 2016247509 A1 20160825; US 2016275957 A1 20160922; US 2019108842 A1 20190411; US 2019378522 A1 20191212; US 2021056979 A1 20210225; US 2021233543 A1 20210729; US 2024029744 A1 20240125; US 9940938 B2 20180410; US 9953656 B2 20180424; WO 2015010926 A1 20150129; WO 2015010934 A1 20150129; ZA 201601078 B 20170531; ZA 201601080 B 20170830

DOCDB simple family (application)

EP 13189306 A 20131018; AR P140102715 A 20140722; AR P140102716 A 20140722; AU 2014295282 A 20140714; AU 2014295360 A 20140711; BR 112016001137 A 20140714; BR 112016001141 A 20140711; CA 2917770 A 20140711; CA 2918237 A 20140714; CN 201480041693 A 20140714; CN 201480041694 A 20140711; CN 201911131913 A 20140714; CN 201911231963 A 20140711; CN 201911231996 A 20140714; EP 13189305 A 20131018; EP 14738535 A 20140711; EP 14739141 A 20140711; EP 2014064915 W 20140711; EP 2014065021 W 20140714; ES 14738535 T 20140711; ES 14739141 T 20140711; JP 2016528404 A 20140711; JP 2016528408 A 20140714; KR 20167004625 A 20140711; KR 20167004626 A 20140714;

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